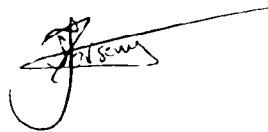


I, Sandra Jayne PARSONS BSc, MA,  
translator to RWS Group plc, of Europa House, Marsham Way, Gerrards Cross,  
Buckinghamshire, England, hereby declare that I am conversant with the English and  
Japanese languages and am a competent translator thereof. I declare further that to the best of  
my knowledge and belief the following is a true and correct translation of the accompanying  
document in the Japanese language.

Signed this 30th day of April 2002

A handwritten signature in black ink, appearing to read 'S. J. Parsons', with a long horizontal line extending to the right.

S. J. PARSONS

For and on behalf of RWS Group plc

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(54) Title of the invention  
Adhesive sheet with film and device for the manufacture thereof

(21) Application no. S63-73172  
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## Specification

### 1 Title of the invention

Adhesive sheet with film and device for the manufacture thereof

5

### 2 Scope of the patent claims

1. Adhesive sheet with film, wherein an adhesive layer is formed on the underside of the sheet, a film having a peel-off layer on the surface is adhered to said adhesive layer, an adhesive layer is provided on the underside of said film, perforated lines are formed in the  
10 abovementioned sheet so as to reveal said film, and a peel-away guide part is formed on one part of the abovementioned sheet delimited by said perforated lines.

15

2. Adhesive sheet with film according to Claim 1, wherein the abovementioned peel-away guide part is a non-adhesive layer part provided on the underside of the sheet.

3. Adhesive sheet with film according to Claim 1, wherein the abovementioned peel-away guide part is a non-adherent part formed such that the adhesive layer on the underside of the sheet does not adhere to the film.

20

4. Adhesive sheet with film according to Claim 1, wherein a non-see-through covering layer is provided on the underside of the abovementioned sheet.

25

5. Device for the manufacture of an adhesive sheet with film and provided with: means for transferring the sheet and the peel-off sheet respectively; means for coating the underside of the sheet and the surface of the peel-off sheet respectively with adhesive; means for heating the abovementioned sheet and peel-off sheet coated with adhesive; means for adhering a film having a peel-off layer on the surface to the face coated with adhesive of the peel-off sheet; and means for adhering the face coated with adhesive of the abovementioned sheet to the surface of said film.

30

### 3 Detailed description of the invention

The present invention relates to an adhesive sheet with film such that it is possible to conceal the part to be affixed to until the time comes to break the seal, and a device for the manufacture thereof.

35

Affixing a transparent film and a sheet adhered to said film to a postcard or the like has been proposed in order to conceal specific parts of goods and the writing side of documents such as postcards and the like, but there were times when it became impossible to peel off with ease

when breaking the seal, and when it was not possible to break the seal cleanly, and there were many times when production could not be achieved economically because it was complicated.

5 The present invention pertains to a system which improves upon these types of disadvantage and which has many other features in addition thereto, and is an adhesive sheet with film, wherein a film having a peel-off layer on the surface is attached to the underside of a sheet, an adhesive layer is provided on the underside of said film and said adhesive layer is made so as to adhere to the part to be affixed to of the postcard or the like, and, in order to reveal said film, perforated lines are provided in the abovementioned sheet, and a peel-away guide part is  
10 formed on one part of the sheet delimited by said perforated lines.

Further, with the present invention, a device is provided for manufacturing the adhesive sheet with film with which, while transferring the sheet and the peel-off sheet, the underside of said sheet and the surface of the peel-off sheet respectively are coated with adhesive, adhesive is  
15 fixed to each face by heating at the respective heating parts, and, thereafter, a film having a peel-off layer on the surface is adhered to the face coated with adhesive of the peel-off sheet, and the face coated with adhesive of the abovementioned sheet is adhered to the surface of said film. Adhesive sheets with film obtained in this way can be printed appropriately on the surface and punched to a specific size, perforated lines may be formed and a peel-away guide  
20 part may be formed when appropriate.

A detailed description will now be given in accordance with the drawings which show embodiments.

25 Figure 1 is a perspective view of the inventive adhesive sheet with film. Sheet (1) is such that a film (2) is adhered to the underside thereof, the underside of said film and a projecting part (3) of the abovementioned sheet are adhered to a peel-off sheet (4), there are perforated lines (5), (5) to the inside of the outer edge of said film (2), and a perforated line (6) is formed along one perforated line (5) to delimit a tongue piece (7). It is possible to provide an appropriate display on the surface of said sheet by printing or the like, and to make the overall  
30 shape circular or triangular or any other appropriate shape. It is also possible not to provide the peel-off sheet continuously, but to provide it cut and separated into individual sheets, to form labels or tags, or peel-off prize cards. Giving detailed descriptions of each of the abovementioned configurations with reference to Figures 2 to 5, it is possible to form an  
35 adhesive layer (8) on the underside of the abovementioned sheet (1), or in cases where said sheet is see-through, to mix grey, brown or the like dark pigments into said adhesive layer (8), or to stick on a coloured film (9) as shown in Figure 3, or to provide a covering layer by implementing dark-coloured printing of the back of the sheet and then forming the

abovementioned adhesive layer (8) on the underside of said covering layer. In the part corresponding to the back of the tongue piece (7) delimited by the abovementioned perforated lines (5), (6), a peel-away guide part is formed so as to make peeling away easy. It is possible to form said peel-away guide part in various shapes, and as shown in Figure 2 and Figure 4, it can be formed by not providing an adhesive layer in the part where the pulling away of the tongue piece starts or along the tongue piece, to form a non-adhesive layer part (no paste) (10), or, as shown in Figure 5, ink, varnish, medium or the like can be printed on the underside of the adhesive layer (8) to provide a non-adherent part (masked paste) (11).

10 The abovementioned film (2) is made of a transparent or coloured transparent material which can be seen through, a peel-off layer (12) is provided in the surface, and an adhesive layer (13) is formed in the underside. The abovementioned peel-off sheet (4) also has a peel-off layer (14) on the surface, but it is preferable that the peel-off layer (12) of the abovementioned film is more heavily peel-off treated in comparison with said peel-off layer (14), and that the sheet (1) adhered to the upper surface of the film is more difficult to peel away than the film.

To use the abovementioned adhesive sheet with film, it is preferable to peel the whole assembly away from peel-off sheet (4), and then to affix it to the postcard or other part to be affixed to (15), and by doing so, it is possible to conceal the writing side of the part to be affixed to (15) with the sheet (1). Then, to break the seal at the necessary time, by taking the end part of the abovementioned tongue piece (7), because the peel-away guide part such as the non-adhesive layer part (10) (Figure 6) or the non-adherent part (11) (Figure 7) or the like is formed on the underside of said tongue piece, the tongue piece (7) can be peeled away easily, after which it is possible to pull away the cover part (17) of the sheet using the end edge (16) as a hold. In this way, the abovementioned film (2) is revealed, and so it is possible to see through to the writing side or the like of the part to be affixed to (15). Further, because the abovementioned tongue piece (7) can be torn away from the cover part (17), one can determine that the seal has been broken.

30 The abovementioned adhesive sheet with film can be made using the manufacturing device shown in Figure 8 and onwards.

35 In the figures, peel-off sheet (4) with peel-off layer (14) formed on the surface and stencil paper constructing the sheet (1) are respectively sent via transferring means such as sending rollers (18), (19), provided in each position. Then, adhesive (22) is coated by coating means such as coating rollers (20), (21), onto the underside of sheet (1) and the surface of peel-off sheet (4). At this time, an adhesive layer may be formed on all of peel-off sheet (4), or, as

shown in Figure 9, a plurality of lines of adhesive layers (13)... may be formed. In this case, a knife (23) having a projection suitable for removing adhesive may be attached to the coating rollers, or the adhesive may be coated using a roller with a gully attached (not shown) which gully is formed to be concave so that the adhesive does not stick. Further, in the  
5 abovementioned sheet (1), as shown in Figure 10, an adhesive layer (8) is formed on all of the underside, but when the abovementioned non-adhesive layer (10) is provided, a knife (24) or the like having projections for removing the adhesive at appropriate places may be provided.

After coating with adhesive, said sheet (1) and peel-off sheet (4) are sent to the heating part  
10 (25), and the adhesive is dried. At this time, the temperature of the heating part may be from 70°C to 120°C, but this temperature should not damage sheet (1) and peel-off sheet (4).

Film (2) having a peel-off layer (12) which has been heavily peel-off treated in comparison with the peel-off layer (14) of the abovementioned peel-off sheet is positioned subsequent to  
15 the abovementioned heating means, and while the abovementioned peel-off sheet (4) is being transferred, it is overlapped with the face coated with adhesive and adhered thereto, this is then sandwiched together by pressure roller (26) and rubber roller (27) and sent (Figure 11). Since the abovementioned film (2) is adhered to all of the peel-off sheet (4) as shown in the figure, the parts which correspond to parts where the abovementioned adhesive layers (13)...  
20 are not formed are useless. Accordingly, cuts (29) are made in said film (2) along the edge part of the adhesive layer, using a slitter blade (28), and belt-shaped useless parts (30)... are suctioned using suction pipe (31) and removed (Figure 12). In this state, as shown in Figure 13, film (2) is adhered to the upper surface of peel-off sheet (4).

After this, the face coated with adhesive of the abovementioned sheet (1) is superposed on the  
25 upper surface of the abovementioned film (2), and sandwiched together by pressure roller (32) and rubber roller (33), to adhere both parts (Figure 14). In this state, since a plurality of adhesive sheets with film are established in a row, if these are cut (35) in the part where the abovementioned adhesive layer (13) is not formed using a slitter blade (34), a plurality of  
30 sheet materials (36) in which film (2) and sheet (1) are adhered on the surface of the peel-off sheet (4) can be obtained at one time.

A product like that shown in Figure 1 can be obtained if the sheet material (36) obtained as above is set in a printing machine, the surface of the sheet is printed appropriately, the sheet  
35 and the film are punched into the appropriate shapes whilst perforated lines are formed in the sheet, and then the useless parts are removed. Figure 15 shows one example of a printing machine, and the abovementioned sheet material (36) is separated into a sheet part (37) having an adhesive layer, and a peel-off sheet part (38) having a film, and the surface of the

sheet part (37) is printed using plate roller (39). At this time, in order to form a non-adherent part (11) on the adhesive layer (8) by printing as detailed above, a paste face printing device (40) may be provided on the face which has been coated with adhesive of sheet part (37) and printed appropriately. After this, the abovementioned sheet part (37) and the peel-off sheet part (38) are superposed, sandwiched together using pressure roller (41), and a punching device (42), such as a rotary die cutter or a flat die cutter, is used to punch the abovementioned sheet part (37) and film (2) into the appropriate shape and to form perforated lines (5), (5), (6) in the sheet. The peripheral useless parts (43) are taken away, to obtain product (44).

It should be noted that in the abovementioned manufacturing device and printing device, the surface of the rollers which contact the adhesive layer may be treated with silicon, Teflon or another such non-adherent material.

Configuring the present invention as described above means that easy-to-use adhesive sheet with film can be obtained and that this type of sheet can be made economically.

#### 4 Brief description of the figures

The figures show embodiments of the present invention, where:

Figure 1 is a perspective view;

Figures 2 and 3 are part exploded sections;

Figures 4 and 5 are explanatory views separating and showing the respective constructional parts;

Figures 6 and 7 are part perspective views showing the use state;

Figure 8 is a side surface view of the manufacturing device;

Figures 9 to 14 are respective explanatory views during the manufacturing process, with:

Figure 9 being a perspective view of the state in which the adhesive has been coated onto the peel-off sheet;

Figure 10 being a front surface view of the sheet coated with adhesive;

Figure 11 being a perspective view of the state in which film is adhered to the peel-off sheet;

Figure 12 being a plan view of the suction pipe part;

Figure 13 being a front surface view of the state in which the useless parts of the film have been removed; and

Figure 14 being a front surface view of the state in which the sheet is adhered on top of the film; and

Figure 15 is a side surface view of one example of the printing machine.

- 2 film
- 4 peel-off sheet
- 5, 6 perforated line

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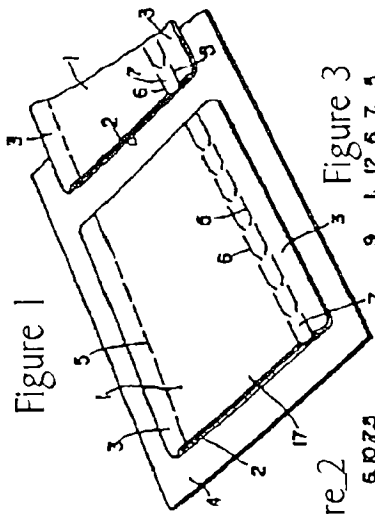


Figure 1

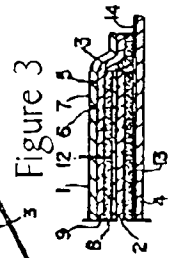


Figure 3

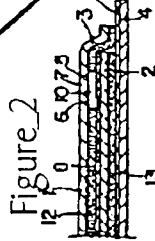


Figure 2

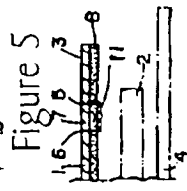


Figure 5

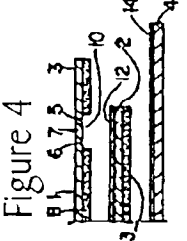


Figure 4

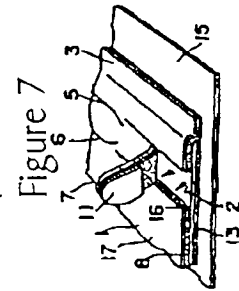


Figure 7

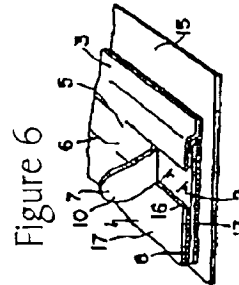


Figure 6

Figure 8

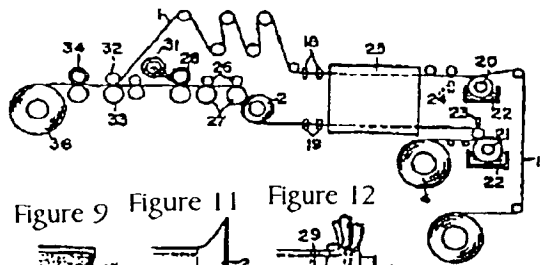


Figure 9

Figure 11

Figure 12

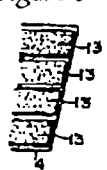


Figure 10

Figure 14

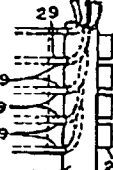
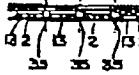
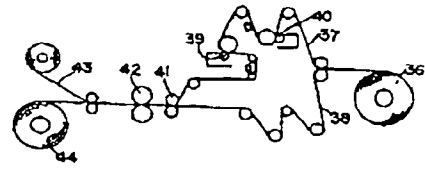


Figure 13



Figure 15



**ADHESIVE SHEET WITH FILM AND ITS MANUFACTURING DEVICE**

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Publication date: 1989-10-03  
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Applicant(s): SANWA SHIGYO KK; others: 01  
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Application Number: JP19880073172 19880329  
Priority Number(s):  
IPC Classification: B42D15/00  
EC Classification:  
Equivalents: JP1934632C, JP6059752B

**Abstract**

**PURPOSE:** To allow the section to be attached to be covered until sheet is separated from film by forming an adhesive layer on the under surfaces of the sheet and the film, attaching the film with a peel-apart layer on the surface of the adhesive layer of the sheet, and forming a guide section for peel-apart on a part of the sheet with a defined cut-off section.

**CONSTITUTION:** Sheet 1 has film 2 of a material which allows itself to be seen through on the under surface, and the under surface of the film and the extended section of the sheet are attached to peel-apart sheet 4. Cut-off lines 5, 5 are provided inside the periphery of the film 2, and a tongue-shape piece 7 is formed along one cut-off line 5 to define the other cut-off line 6. When the adhesive sheet with film is used, the whole sheet is separated from the peel-apart sheet 14 and is attached to a post card or any other materials. In this way, the descriptive surface of the material can be covered with the sheet 1. Then the tongue-shape piece 7 can be peeled apart by holding the end of the piece whenever necessary. Furthermore, the covered section 17 of the sheet can be separated by using the rear edge 16 of the piece as a guide. Thus the film 2 is allowed to come out of the sheet and the descriptive surface of the material 15 can be seen through.

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⑩ 特許出願公開

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⑭ 公開 平成1年(1989)10月3日

B 42 D 15/00

3 7 1

7008-2C

審査請求 有 請求項の数 5 (全4頁)

⑯ 発明の名称 フィルム付粘着シート及びその製造装置

⑰ 特 願 昭63-73172

⑱ 出 願 昭63(1988)3月29日

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## 明 細 書

## 1 発明の名称

フィルム付粘着シート及びその製造装置

## 2 特許請求の範囲

1. シートの下面に粘着剤層を形成し、該粘着剤層に表面に剥離層を有するフィルムを接合し、該フィルムの下面に粘着剤層を設け、上記シートに該フィルムを現出するよう切取線を形成し、該切取線により画成された上記シートの一部に剥取案内部を形成したフィルム付粘着シート。
2. 上記剥取案内部は、シートの下面に設けた非粘着剤層部である請求項1記載のフィルム付粘着シート。
3. 上記剥取案内部は、シートの下面の粘着剤層がフィルムに接合しないように形成した非接合部である請求項1記載のフィルム付粘着シート。
4. 上記シートの下面に不透視性の遮蔽層を設けてある請求項1記載のフィルム付粘着シート。
5. シートと剥離シートをそれぞれ移送する手段、シートと剥離シートの裏面にそれぞれ

粘着剤を塗布する手段、粘着剤を塗布した上記シート及び剥離シートを加熱する手段、剥離シートの粘着剤塗布面に表面に剥離層を有するフィルムを接合する手段、上記シートの粘着剤塗布面を該フィルムの裏面に接合する手段を具備するフィルム付粘着シートの製造装置。

## 3 発明の詳細な説明

本発明は、開封するまで被貼付部を隠蔽できるようにしたフィルム付粘着シート及びその製造装置に関する。

要書その他の書類の記載面や物品等の特定部分を隠蔽するため、透明なフィルムと該フィルムに接合したシートを要書等に貼付することが提案されているが、開封時に容易に剥すことができなかつたり、きれいに開封できないことがあり、また製造が面倒で経済的に得られないものが多かつた。

本発明はそのような欠点を改善しその他の種々の長を有するようシートの下面に、表面に剥離層を有するフィルムを接合し、該フィルムの下面に粘着剤層を設け、該粘着剤層を要書等の被貼付

部に接着するようにし、かつ上記フィルムを現出するため上記シートに切取線を設け該切取線により面成されたシートの一部に剥取案内部を形成したフィルム付粘着シートに係るものである。

また、本発明によれば、フィルム付粘着シートを製造するようシートと剥離シートを移送しながら該シートの下面及び剥離シートの表面にそれぞれ粘着剤を塗布し、それぞれ加熱部で加熱して粘着剤を各面に定着し、その後剥離シートの粘着剤塗布面に裏面に剥離層を有するフィルムを張着し、該フィルムの表面に上記シートの粘着剤塗布面を接着する装置が提供される。このようにして得られたフィルム付粘着シートは、適宜表面に印刷したりして所定の大きさに打抜いたり、切取線を形成すればよく、また適時に剥取案内部を形成すればよい。

以下実施例を示す図面と共に詳細に説明する。

第1図は、本発明のフィルム付粘着シートの斜視図を示してある。シート(1)は下面にフィルム(2)を接着してあり、該フィルムの下面及び上記シ-

ートの延出部(3)が剥離シート(4)に接着され、該フィルム(2)の周縁より内側に切取線(5)、(6)が有り、一方の切取線(5)に沿って切取線(6)を形成して舌片(7)を面成してある。該シートの表面には印刷等により適宜の表示を設けることができ、また全体の形状も円形、三角形その他の適宜の形にすることができるし、剥離シートに連続的に設けないで、一枚ずつ切離して設け、ラベル、レツテルとしたり、スピードくじとして形成することもできる。上記各構成を第2図～第5図を参照して詳述すると、上記シート(1)の下面には粘着剤層(8)を形成してあり、該シートが透視性を有するような場合には、該粘着剤層(8)にグレー、茶色等の濃い色素を混在させるようにしたり、第3図に示すように着色フィルム(9)を貼つたり、シートの裏面に適色の印刷を施すことにより遮蔽層を設け、該遮蔽層の下面に上記粘着剤層(8)を形成するとよい。上記切取線(5)、(6)により面成された舌片(7)の裏面に対応する部分には、剥取を容易にするよう剥取案内部を形成してある。該剥取案内部は種々に形成すること

ができ、第2図、第4図に示すように、舌片に沿って若しくは舌片の剥取始めの部分に、粘着剤層を設けなくて非粘着剤層部(のり抜き)10を形成したり、第5図に示すように粘着剤層(8)の下面にインキ、ニス、メジウム等を印刷して非接着部(のり殺し)11を設けてある。

上記フィルム(2)は透明乃至有色透明の透視可能な材質で形成され、表面に剥離層12を設け、下面に粘着剤層13を形成してある。上記剥離シート(4)も裏面に剥離層14を有しているが、該剥離層14に比べて上記フィルムの剥離層12を重剥離処理し、フィルムの上面に張着されたシート(1)の方がフィルムより剥れにくくなるようにするとよい。

上記フィルム付粘着シートを使用するには、剥離シート(4)から全体を剥し、裏面その他の被貼付部時に貼付ければよく、このようにすれば被貼付部時の記載面等をシート(1)により隠蔽することができる。そして、必要時に開封するには、上記舌片(7)の端部をつまめば、該舌片の下面には非粘着剤層部10(第4図)や非接着部11(第5図)等の

剥取案内部を形成してあるので、容易に舌片(7)を剥取ることができ、その後端縁部を手がかりとしてシートの覆部15を剥すことができる。このようにして上記フィルム(2)は現出するので、被貼付部16の記載面等を透視することができる。また、上記舌片(7)が覆部16から切取られることにより、開封した事実が分る。

上記フィルム付粘着シートは、第5図以降に示す製造装置により作ることができる。

図において、裏面に剥離層14を形成した剥離シート(4)及びシート(1)を構成する原紙は、それぞれ各所に設けた送りロール17、18等の移送手段で送られる。そして、シート(1)の下面と剥離シート(4)の表面に、塗布ロール19、20等の塗布手段で粘着剤13を塗布する。この際、剥離シート(4)には、全面に粘着剤層を形成してもよいが、第9図に示すように、複数列の粘着剤層13…を形成するようにしてもよい。この場合には、粘着剤を除去する適宜の突起を有するドクターナイフ21を塗布ロール19に付設したり、粘着剤が付着しないよう凹溝を形

成した膜付ロール(図省略)で粘着剤を塗布するようにすればよい。また、上記シート(1)には、第10図に示すように下面の全面に粘着剤層(8)を形成してあるが、上記非粘着剤層(4)を設ける場合は、適所に粘着剤を除去する突起を有するドクターナイフ(4)等を設ければよい。

粘着剤塗布後、該シート(1)及び剥離シート(4)は、加熱部(4)に送られ、粘着剤は乾燥される。このとき、加熱部の温度は約70℃〜120℃に熱せられているが、この温度によりシート(1)及び剥離シート(4)が損傷されることはない。

上記剥離シートの剥離層(4)に比べて重剥離処理された剥離層(4)を有するフィルム(2)は、上記加熱手段の次に位置しており、上記剥離シート(4)が移送する途中で粘着剤塗布面に重なって接着し、押えロール(4)とゴムロール(4)により挟持されて送られる(第11図)。上記フィルム(2)は、図に示すように剥離シート(4)の全面に接着されているから、上記粘着剤層(4)…を形成していない部分に対応する部分は不要となる。そこで、スリッター刃(4)で

該フィルム(2)を粘着剤層の縁部に沿って切断(4)し、布状の不要片(4)…を吸引管(4)で吸引して除去する(第12図)。このようにした状態では、第13図に示すように剥離シート(4)の上面にフィルム(2)が接着されている。

その後、上記シート(1)の粘着剤塗布面を上記フィルム(2)の上面に重ね合せ、押えロール(4)とゴムロール(4)で挟持し、両者を接着する(第14図)。この状態では、複数のフィルム付粘着シートが並設されているから、上記粘着剤層(4)を設けなかった部分でスリッター刃(4)により切断(4)すれば、剥離シート(4)の表面にフィルム(2)とシート(1)を接着した複数のシート素材(4)が一度に得られる。

このようにして得られたシート素材(4)を印刷機にセットし、シートの表面に適宜印刷し、かつシート及びフィルムを所望形状に打抜くと共にシートに切取線を形成し、不要部分を取り去れば、第15図に示す如き製品が得られる。第15図は印刷機の一例を示し、上記シート素材(4)は、粘着剤層を有するシート部分(4)とフィルムを有する剥離シ

ト部分(4)に分類され、シート部分(4)の表面に版ロール(4)により印刷をする。この際、上記のように粘着剤層(8)に印刷により非接着部(4)を形成するには、シート部分(4)の粘着剤塗布面に親面印刷装置(4)を設けて適宜印刷すればよい。その後上記シート部分(4)と剥離シート部分(4)を重ね合せ、押えロール(4)で挟持し、ロータリーダイカットやフラットダイカット等の打抜装置(4)により、上記シート部分(4)とフィルム(2)を適宜の形状に打抜くと共にシートに切取線(4)、(4)、(4)を形成する。周囲の不要部分(4)は抜き取られ、製品(4)が得られる。

なお、上記製造装置及び印刷装置において、粘着剤層が接する各ロールの表面は、シリコン、チフロンその他の非接着性材料で処理しておくとい

本発明は上記のように構成され、使用し易いフィルム付粘着シートが得られ、かつこの種シートを経済的に作ることができる。

#### 4 図面の簡単な説明

図面は本発明の実施例を示し、第1図は斜視図、

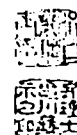
第2図及び第3図は一部の拡大断面図、第4図及び第5図はそれぞれ構成部分を分離して示す説明図、第6図及び第7図は使用状態を示す一部の斜視図、第8図は製造装置の側面図、第9図〜第14図はそれぞれ製造工程中の説明図であつて、第9図は剥離シートに粘着剤を塗布した状態の斜視図、第10図は粘着剤を塗布したシートの正面図、第11図はフィルムを剥離シートに接着した状態の斜視図、第12図は吸引管部分の平面図、第13図はフィルムの不要部分を除去した状態の正面図、第14図はシートをフィルムの上に接着した状態の正面図、第15図は印刷機の一例を示す側面図である。

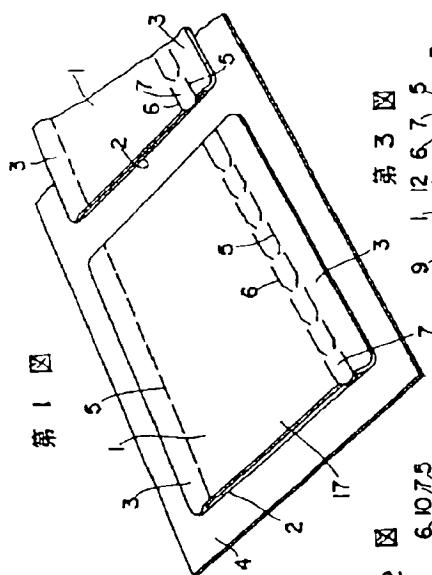
1…シート、2…フィルム、4…剥離シート、  
5、6…切取線

特許出願人 三和紙業株式会社

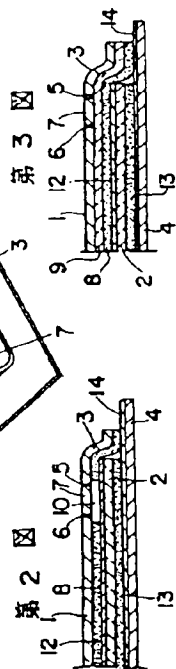
代理人 弁護士 井 上 清 子

代理人 弁護士 亀 川 義 示

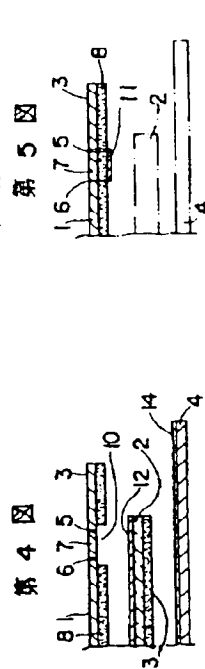




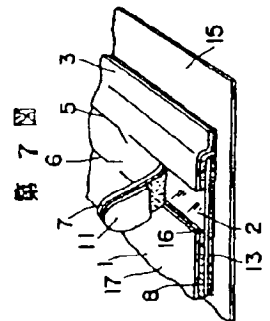
第 1 図



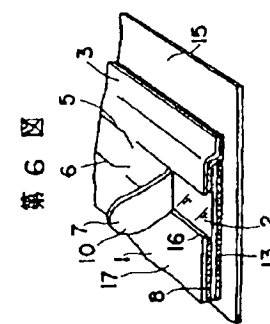
第 2 図



第 3 図

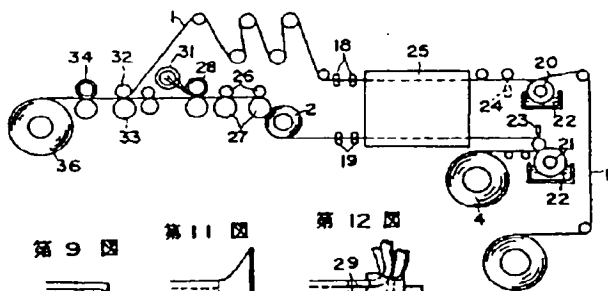


第 4 図



第 5 図

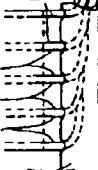
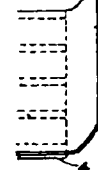
第 6 図



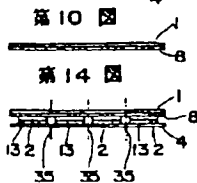
第 7 図

第 8 図

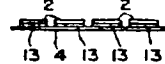
第 9 図



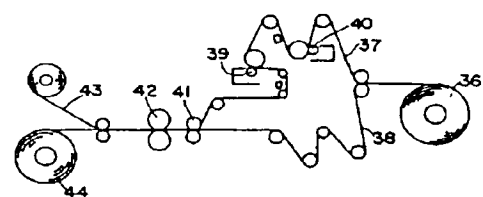
第 10 図



第 11 図



第 12 図



第 13 図